Influenza activity in San Diego County has been higher so far this season compared to the 2020-21 season and influenza reports have increased steadily in recent weeks. Seasonal influenza vaccinations are currently available and encouraged. More than one million influenza vaccinations have been recorded in the San Diego Immunization Registry this season to date.

Current Week 51 (ending 12/25/2021)
• 192 new influenza detections reported
• 1 influenza-related death reported
• 5% influenza-like illness (ILI) among emergency department visits
• 10% of death certificates registered with pneumonia and/or influenza

1,052
Total Cases

1
Death†

0
Outbreaks* 

† Flu deaths less than 18 years of age are reportable to CDPH.
* In a congregate living setting, outbreaks are defined as at least one laboratory-confirmed influenza case in the setting of a cluster (≥2 cases) of influenza-like illness (ILI) within a 72-hour period.

Table 1. Influenza Surveillance Indicators.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>2021-22 Season</th>
<th>2020-21 Season</th>
<th>Prior 5-Year Average*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 51</td>
<td>Week 50</td>
<td>Total To Date</td>
</tr>
<tr>
<td>All influenza detections reported (rapid or PCR)</td>
<td>192</td>
<td>188</td>
<td>1,052</td>
</tr>
<tr>
<td>Percent of emergency department visits for ILI</td>
<td>5%</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>Percent of deaths registered with pneumonia and/or influenza</td>
<td>10%</td>
<td>9%</td>
<td>18%</td>
</tr>
<tr>
<td>Number of influenza-related outbreaks™</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of influenza-related deaths reported^</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Influenza season is July 1 – June 30, Weeks 27-26. Previous weeks’ case counts or percentages may change due to delayed processing or reporting.
†At least one case of laboratory-confirmed influenza in a setting experiencing two or more cases of influenza-like illness (ILI) within a 72-hour period.
*Current FY deaths are shown by week of report; by week of death for prior FYs. Total deaths reported in prior seasons: 87 in 2016-17, 343 in 2017-18, 77 in 2018-19, 108 in 2019-20, and 2 in 2020-21.
People at High Risk for Influenza Complications

Although everyone six months and older should get an annual influenza vaccine, some people are more likely to get influenza complications that can result in hospitalization and sometimes death. Influenza can also make chronic health problems worse. The groups of people who are more likely to get serious flu-related complications if they get sick with influenza are listed below.

- Children younger than 5, but especially children younger than 2 years old
- Adults 65 years of age and older
- Pregnant women (and women up to two weeks postpartum)
- Residents of nursing homes and other long-term care facilities
- American Indians and Alaskan Natives seem to be at higher risk of flu complications
- Asthma
- Children and adults with neurological and neurodevelopmental conditions (including disorders of the brain, spinal cord, peripheral nerve, and muscle such as cerebral palsy, epilepsy (seizure disorders), stroke, intellectual disability (mental retardation), moderate to severe developmental delay, muscular dystrophy, or spinal cord injury).
- Chronic lung disease (such as chronic obstructive pulmonary disease [COPD] and cystic fibrosis)
- Heart disease (such as congenital heart disease, congestive heart failure and coronary artery disease)
- Blood disorders (such as sickle cell disease)
- Endocrine disorders (such as diabetes)
- Kidney disorders
- Liver disorders
- Metabolic disorders (such as inherited metabolic disorders and mitochondrial disorders)
- Weakened immune system due to disease or medication (such as people with HIV or AIDS, or cancer, or those on chronic steroids)
- People younger than 19 years of age who are receiving long-term aspirin therapy
- People with extreme obesity (body mass index [BMI] of 40 or more)

Each year, most influenza deaths occur among people who had no evidence of having received an annual influenza vaccine. Providers should make extra efforts to ensure that everyone at risk for influenza gets the annual influenza vaccine. More information is available at the CDC influenza website.

Table 2. Influenza Cases by Week Reported, 2021-2022 Season

<table>
<thead>
<tr>
<th>Positive Test Type/Subtype</th>
<th>Week 51</th>
<th>Week 50</th>
<th>Total to Date</th>
<th>Percent to Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza A, subtype unknown</td>
<td>179</td>
<td>169</td>
<td>826</td>
<td>78.5%</td>
</tr>
<tr>
<td>Influenza A (H1N1)pdm09</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Influenza A (H3)</td>
<td>8</td>
<td>11</td>
<td>61</td>
<td>5.8%</td>
</tr>
<tr>
<td>Influenza B, subtype unknown</td>
<td>3</td>
<td>5</td>
<td>155</td>
<td>14.7%</td>
</tr>
<tr>
<td>Influenza B/Victoria</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Influenza B/Yamagata</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Influenza, type unknown</td>
<td>2</td>
<td>3</td>
<td>10</td>
<td>1.0%</td>
</tr>
<tr>
<td>Total</td>
<td>192</td>
<td>188</td>
<td>1,052</td>
<td>100.0%</td>
</tr>
</tbody>
</table>
Influenza Activity Indicator:
The activity level compares the current week’s ED ILI% (emergency department influenza-like illness, percent of all visits) to the mean and number of standard deviations above of the mean of the ED ILI% in non-influenza season weeks (CDC disease weeks 27-39) from the current and prior four seasons.

There are 10 activity levels, classified as: Minimal (levels 1-3), Low (levels 4-5), Moderate (levels 6-7), and High (levels 8-10). An activity level of 1 corresponds to when the ED ILI% is below the mean; level 2 corresponds to when the ED ILI% is less than 1 standard deviation above the mean; level 3 corresponds to when the ED ILI% is more than 1 but less than 2 standard deviations above the mean, and so on, with an activity level of 10 corresponding to when the ED ILI% is at 8 or more standard deviations above the mean.
Figure 2. San Diego County Influenza Detections by Type and CDC Episode Week*, 2021-22 Season to Date (N=1,052).

Figure 3. Cumulative Influenza Cases by CDC Episode Week* and Season.

*If case did not have symptoms or illness onset date is unavailable, the earliest of specimen collection date, date of death, or date reported is used instead.
INFLUENZA WATCH

County of San Diego

Week 51
Ending 12/25/2021

Figure 4. Proportion of Influenza Cases by Age Group and Season.

![Proportion Chart]

- 2017-18
- 2018-19
- 2019-20
- 2020-21
- 2021-22 FYTD

- <1 year
- 1-17 years
- 18-64 years
- 65-79 years
- 80+ years

Figure 5. Number of Influenza Vaccinations Administered* by CDC Week and Season.

![Vaccinations Chart]

Season Total
- 2017-2018: 901,156
- 2018-2019: 1,071,703
- 2019-2020: 1,240,616
- 2020-2021: 1,237,855
- 2021-2022 FYTD: 1,029,946

*Influenza vaccinations administered and entered into the San Diego Immunization Registry (SDIR). Week 52 data are repeated for week 53 for seasons that do not include week 53.
Figure 6. Percent of Emergency Department Visits for ILI Chief Complaint by CDC Week and Season*.

* Week 52 data are repeated for week 53 for seasons that do not include week 53.

Figure 7. Percent of Emergency Department Visit Chief Complaints for Cough, Cold, Fever, or Respiratory Symptoms* by CDC Week, 2021-22 Season to Date.

* Respiratory category includes cough, cold symptoms, influenza-like illness, and other respiratory symptoms.
Figure 8. Percent of San Diego County Emergency Department Visits for Influenza-like Illness by CDC Week and Season Compared to 5-Year Baseline and Upper 95% Threshold Values (Serfling Method).

Figure 9. Percent of San Diego County Deaths Registered with Pneumonia and/or Influenza by CDC Week and Season Compared to Prior 5-Year Baseline and Upper 95% Threshold Values (Serfling Method).
Figure 10. Influenza Deaths by Type and Season.

- **Influenza A, subtype unknown**
- **Influenza A(H1N1)pdm09**
- **Influenza A(H3)**
- **Influenza B, all subtypes**
- **Influenza, type unknown**
- **Both influenza A and influenza B**

Figure 11. Percent of Influenza Deaths by Age Group, Vaccination Status, and Underlying Medical Condition, 2021-22 Season.

- **< 18 years**: N=0
- **18-64 years**: N=1
- **65+ years**: N=0
- **All Flu Deaths**: N=0

*known to be vaccinated
Influenza Reporting in San Diego County

Individual influenza cases are reportable to the County of San Diego Epidemiology and Immunization Services Branch. Please report laboratory-positive influenza results to the County Epidemiology Unit by FAX (858) 715-6458 using a Confidential Morbidity Report Form, or an Influenza Case Report Form, and/or a copy of the laboratory results. Also, please indicate if the patient died and/or is a resident of a congregate living facility (if known).

Influenza specimens may be sent to Public Health Laboratory (PHL) for confirmation and subtyping. Please contact PHL at (619) 692-8500 before submitting or for questions and use the current PHL Test Requisition Form. Contact the Epidemiology Unit by telephone (619) 692-8499 or email (EpiDiv.HHSA@sdcounty.ca.gov) with questions about influenza data. Influenza outbreaks should be reported by telephone to (619) 692-8499.

Resource Links

- County of San Diego Epidemiology Unit www.sdepi.org
- County of San Diego 2020-21 Influenza Season Summary
- Influenza Watch Slide Deck – A slide version of this report for presentations
- County of San Diego Immunization Unit (SDIZ) www.sdiz.org
- San Diego Immunization Registry (SDIR)
- California Department of Public Health (CDPH) Influenza Update
- Centers for Disease Control and Prevention (CDC) Influenza Surveillance

Influenza Watch Data Sources

The following sources of data are used to produce this report:

- **Influenza case reports**: Medical providers and laboratories report individual cases of confirmed influenza via fax or electronic laboratory reporting (ELR) to Public Health Services Epidemiology Unit (Epidemiology).

- **Influenza deaths**: Hospital infection control professionals report influenza-related deaths. Pediatric flu deaths (under 18 years of age) are legally reportable in California; however, San Diego County requests that all influenza-related deaths be reported for surveillance purposes. Influenza-related deaths are also identified through death certificate registration. The County Office of Vital Records notifies Epidemiology when a new death is registered with influenza listed as a cause of death or contributing condition. In addition, influenza case reports are compared to death data for San Diego County, and matches are evaluated to determine if influenza infection was related to the cause of death.

- **Percent pneumonia and influenza deaths**: The percentage of all deaths registered that had either pneumonia and/or influenza listed as a cause of death is obtained directly from the Vital Records data system on a weekly basis.

- **Influenza-like illness (ILI)**: Electronic emergency department (ED) visit data are submitted to Epidemiology daily. The percent of ED visits for ILI or flu (based on chief complaints or diagnosis) is calculated for each week. ILI is defined as fever and cough and/or sore throat.

- **Influenza outbreaks**: In a congregate living setting, outbreaks are defined as at least one laboratory-confirmed influenza in the setting of a cluster (≥2 cases) of influenza-like illness (ILI) within a 72-hour period. Influenza outbreaks are reportable in California. Epidemiology identifies outbreaks when facilities call to report. Other potential outbreaks are identified when multiple cases share an address or have a residential address that matches a skilled nursing or long-term care facility.

- **Number of vaccines**: The San Diego Immunization Registry (SDIR) provides weekly updates on the number of flu vaccinations given based on the number of flu vaccinations registered by participating providers.

For information on COVID-19 in San Diego County, please see the COVID-19 Watch weekly surveillance report. Additional COVID-19 data and a link to subscribe to the COVID-19 Watch are available on the San Diego County COVID-19 data website.